

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**REVOCATION AND APPOINTMENT OF POWER OF ATTORNEY
AND CHANGE OF CORRESPONDENCE MAILING ADDRESS**



Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

General Dynamics Ordnance and Tactical Systems, Inc., an institution organized under the laws of the State of Florida, having a place of business at 10101 Dr. M.L. King Street, North St. Petersburg, Florida 33716, is assignee of total interest in the above-captioned patent. Pursuant to 37 C.F.R. § 3.73(b), the undersigned, who is empowered to act on behalf of the Assignee, hereby declares that he has reviewed the evidentiary documents of the chain of title and certifies that, to the best of Assignee's knowledge and belief, title to the above-captioned patent is with the Assignee.

Assignee hereby revokes any and all previous Powers of Attorney and hereby appoints, both jointly and severally, the undersigned as its attorneys and agents with full power of substitution and revocation to transact all business in the U.S. Patent and Trademark Office connected therewith, and to take any and all other legal action with regard to this patent, the following attorneys and agents of the firm of Hunton & Williams LLP:

Stanislaus Aksman, Reg. No. 28,562; Jennifer A. Albert, Reg. No. 32,012; Thomas E. Anderson, Reg. No. 37,063; David E. Baker, Reg. No. 42,285; Carl L. Benson, Reg. No. 38,378; Thomas D. Bradshaw, Reg. No. 51,492; Brian M. Buroker, Reg. No. 39,125; Christopher C. Campbell, Reg. No. 37,291; Katherine S. Chang, Reg. No. 40,544; Trevor Q. Coddington, Reg. No. 46,633; Christopher J. Cuneo, Reg. No. 42,450; Patrick A. Doody, Reg. No. 35,022; Kevin T. Duncan, Reg. No. 41,495; Ozzie A. Farres, Reg. No. 43,606; Nancy J. Flint, Reg. No. 46,704; Christopher J. Forstner, Reg. No. 46,049; Charles F. Hollis, III, Reg. No. 40,650; Nancy J. Jensen, Reg. No. 45,913; Betsy Johnson, Reg. No. 55,305; Laba Karki, Reg. No. P-55,317; Robert C. Lampe, III, Reg. No. 51,914;

Jeffrey S. Leaning, Reg. No. 51,184; Shawn K. Leppo, Reg. No. 50,311; Ryan Loveless, Reg. No. 51,970; Tyler Maddry, Reg. No. 40,074; J. Michael J. Martinez, Reg. No. 37,178; James R. Miner, Reg. No. 40,444; Bryan F. Moore, Reg. No. 52,044; Jessica L. Parezo, Reg. No. 50,286; Jeffrey T. Perez, Reg. No. 52,110; Michael P.F. Phelps, Reg. No. 48,654; John P. Pinkerton, Reg. No. 28,746; Laurence H. Posorske, Reg. No. 34,698; Stephen T. Schreiner, Reg. No. 43,097; Robert M. Schulman, Reg. No. 31,196; Thomas J. Scott, Jr., Reg. No. 27,836; Yisun Song, Reg. No. 44,487; Shelley L. Spalding, Reg. No. 51,971; Robert Spendlove, Reg. No. 53,629; Rodger L. Tate, Reg. No. 27,399; Samson Vermont, Reg. No. 42,202; Robert J. Ward, Reg. No. 38,652; Scott F. Yarnell, Reg. No. 45,245 and Leslie Zacks, Reg. No. 50,460.

CERTIFICATE UNDER 37 C.F.R. § 3.73(B)

GENERAL DYNAMICS ORDNANCE AND TACTICAL SYSTEMS, INC., a corporation, certifies that it is assignee of the entire right, title and interest in the patent identified above by virtue of a chain of title from the inventor(s) of the patent identified above, to the current assignee as shown below:

1. United States Utility Patent No. 6,393,991, Patent Date May 28, 2002 as Application No. 09/592,826, filed June 13, 2000, by Assignments:
recorded 3/12/02 at Reel 012717, Frame 0530; AND
recorded 9/29/00 at Reel 011183, Frame 0372
2. United States Utility Patent No. 5,269,223, Patent Date December 14, 1993, as Application No. 07/957,539, filed October 6, 1992, by Assignments:
recorded 3/19/1997 at Reel 8401, Frame 0786; AND
recorded 9/7/1993 at Reel 6766, Frame 0435;
3. United States Application No. 07/862,123, filed April 2, 1992, by Assignments:
recorded 3/3/1997 at Reel 8519, Frame 0083,
4. United States Application No. 07/440,387, filed October 31, 1989, by Assignments:
recorded 3/3/1997 at Reel 8519, Frame 0083; AND
recorded 10/31/1989 at Reel 5185, Frame 0273,
5. United States Application No. 07/621,155, filed November 30, 1990, by Assignments:
recorded 3/3/1997 at Reel 8519, Frame 0083,

6. United States Utility Patent No. 5,993,104, Patent Date November 30, 1999, as Application No. 09/008,978, filed January 20, 1998,
7. United States Application No. 08/357,906, filed December 16, 1994 by Assignment:
recorded 12/16/1994 at Reel 7285, Frame 0579,
8. United States Utility Patent No. 5,069,133, Patent Date December 3, 1991, as Application No. 07/576,576, filed August 31, 1990, by Assignment:
recorded 11/5/1990 at Reel 5502, Frame 0940,
9. United States Utility Patent No. 5,516,378, Patent Date May 14, 1996, as Application No. 08/420,280, filed April 11, 1995 by Assignment:
recorded 4/11/1995 at Reel 7443, Frame 0591,
10. United States Utility Patent No. 5,524,544, Patent Date June 11, 1996, as Application No. 08/278,360, filed July 21, 1994 by Assignment:
recorded 7/21/1994 at Reel 7111, Frame 0430,
11. United States Utility Patent No. 5,510,062, Patent Date April 23, 1996, as Application No. 08/431,949, filed May 1, 1995 by Assignment:
recorded 3/3/1997 at Reel 8519, Frame 0083,
12. United States Utility Patent No. 5,682,009, Patent Date October 28, 1997, as Application No. 08/635,852, filed April 22, 1996 by Assignments:
recorded 7/15/1996 at Reel 8038, Frame 0663;
recorded 3/3/1997 at Reel 8519, Frame 0083,

13. United States Utility Patent No. 5,048,421, Patent Date September 17, 1991, as Application No. 07/562,774 filed August 6, 1990 by Assignment:
recorded 8/6/1990 at Reel 5412, Frame 0224,
14. United States Utility Patent No. 5,829,912, Patent Date November 3, 1998, as Application No. 08/672,148, filed June 27, 1996 by Assignment:
recorded 6/27/1996 at Reel 8102, Frame 0109,
15. United States Utility Patent No. 6,312,188, Patent Date November 6, 2001, as Application No. 09/290,850, filed April 13, 1999 by Assignments:
recorded 6/17/1999 at Reel 010064, Frame 0337;
recorded 8/7/1999 at Reel 011829, Frame 0269,
16. United States Utility Patent No. 6,655,293, Patent Date December 2, 2003, as Application No. 09/804,001, filed March 12, 2001 by Assignment:
recorded 3/12/2001 at Reel 011685, Frame 0825,
17. United States Application No. 10/641,727, filed August 15, 2003 is a divisional of United States Utility Patent No. 6,655,293, Patent Date December 2, 2003 as Application No. 09/804,001 filed March 12, 2001 by Assignment:
recorded 3/12/2001 at Reel 011685, Frame 0825,
18. United States Utility Patent No. 5,796,031, Patent Date August 18, 1998, as Application No. 08/798,204, filed February 10, 1997 by Assignment:
recorded 2/10/1997 at Reel 8456, Frame 0150,
19. United States Utility Patent No. 5,542,354, Patent Date August 6, 1996, as Application No. 08/492,460, filed July 20, 1995 by Assignment:
recorded 7/20/1995 at Reel 7546, Frame 0531,

20. United States Utility Patent No. 5,811,724, Patent Date **September 22, 1998**, as Application No. 08/926,376, filed **September 9, 1997** by Assignment:
recorded 9/9/1997 at Reel 8908, Frame 0282,
21. United States Utility Patent No. 5,063,848, Patent Date **November 12, 1991**, as Application No. 07/598,314, filed **October 16, 1990** by Assignment:
recorded 10/16/1990 at Reel 5484, Frame 0221,
22. United States Utility Patent No. 5,932,836, Patent Date **August 3, 1999**, as Application No. 08/926,153, filed **September 9, 1997** by Assignments:
recorded 7/26/01 at Reel 012014, Frame 0661; AND
recorded 9/9/1997 at Reel 8793, Frame 0611,
23. United States Utility Patent No. RE 38,261, Patent Date **October 7, 2003**, as Application No. 09/919,460, filed **July 31, 2001** by Assignments:
recorded 1/10/2002 at Reel 012469, Frame 0729; AND
recorded 9/9/1997 at Reel 8793, Frame 0611,
24. United States Utility Patent No. 6,446,906, Patent Date **September 10, 2002**, as Application No. 09/825,808, filed **April 4, 2001** by Assignment:
recorded 5/14/2002 at Reel 012901, Frame 0053,
25. United States Utility Patent No. 5,887,821, Patent Date **March 30, 1999**, as Application No. 08/859,917, filed **May 21, 1997** by Assignments:
recorded 3/31/2000 at Reel 010719, Frame 0039; AND
recorded 5/21/1997 at Reel 8572, Frame 0422,

26. United States Utility Patent No. 6,315,239, Patent Date November 13, 2001, as Application No. 08/935,571, filed September 23, 1997 by Assignments:
recorded 3/31/2000 at Reel 010719, Frame 0039; AND
recorded 9/23/1997 at Reel 8733, Frame 0429,
27. United States Utility Patent No. 6,073,880, Patent Date June 13, 2000 as Application No. 09/080,483, filed May 18, 1998 by Assignments:
recorded 3/31/2000 at Reel 010719, Frame 0039; AND
recorded 5/18/1998 at Reel 9366, Frame 0908,
28. United States Utility Patent No. 5,662,290, Patent Date September 2, 1997 as Application No. 08/679,849, filed July 15, 1996 by Assignments:
recorded 3/31/2000 at Reel 010719, Frame 0039; AND
recorded 7/22/1996 at Reel 8193, Frame 0850,
29. United States Utility Patent No. 5,950,963, Patent Date September 14, 1999 as Application No. 08/948,035, filed October 9, 1997 by Assignments:
recorded 3/31/2000 at Reel 010719, Frame 0039; AND
recorded 10/9/1997 at Reel 8772, Frame 0024,
30. United States Utility Patent No. 5,630,564 Patent Date May 20, 1997 as Application No. 08/483,954, filed March 19, 1996 by Assignment:
recorded 3/31/2000 at Reel 010719, Frame 0039; This application is a divisional of Application No. 08/139,939 filed October 19, 1993 by Assignments:
recorded 3/31/2000 at Reel 010719, Frame 0039; AND
recorded 10/19/1993 at Reel 6762, Frame 0226
31. United States Utility Patent No. 5,505,408 Patent Date April 9, 1996 as Application No. 08/139,939 filed October 19, 1993 by Assignments:
recorded 3/31/2000 at Reel 010719, Frame 0039; AND

recorded 10/19/1993 at Reel 6762, Frame 0226,

32. United States Utility Patent No. 4,892,253 Patent Date **January 9, 1990** as Application No. 07/232,022 filed **August 15, 1988** by Assignments:

recorded 3/31/2000 at Reel 010719, Frame 0039; AND

recorded 9/27/1988 at Reel 4957, Frame 0210,

33. United States Utility Patent No. 6,394,016 Patent Date **May 28, 2002** as Application No. 09/785,732 filed **February 16, 2001** by Assignment:

recorded 6/7/2001 at Reel 011876, Frame 0049,

34. United States Utility Patent No. 5,728,968 Patent Date **March 17, 1998** as Application No. 07/398,022 filed **August 24, 1989** by Assignment:

recorded 8/24/1989 at Reel 5116, Frame 0623;

recorded 3/3/1997 at Reel 8519, Frame 0083,

35. United States Utility Patent No. 5,129,324 Patent Date **July 14, 1992** as Application No. 07/644,726 filed **January 23, 1991**. This application is a divisional of 07/429,461 filed **October 19, 1989** by Assignment:

recorded 10/19/1989 at Reel 5454, Frame 707,

36. United States Utility Patent No. 6,662,726 Patent Date **December 16, 2003** as Application No. 09/520,575 filed **March 8, 2000** by Assignment:

recorded 3/8/2000 at Reel 010659, Frame 0102,

37. United States Utility Patent No. 5,052,302 Patent Date **October 1, 1991** as Application No. 07/558,019 filed **July 26, 1990** by Assignment:

recorded 7/22/1991 at Reel 5782, Frame 0106,

38. United States Utility Patent No. 6,158,348 Patent Date December 12, 2000 as Application No. 09/211,420 filed December 15, 1998 by Assignment:
recorded 12/15/1998 at Reel 9663, Frame 0328,
39. United States Utility Patent No. 6,085,660 Patent Date July 11, 2000 as Application No. 09/150,850 filed September 10, 1998 by Assignment:
recorded 9/10/1998 at Reel 9457, Frame 0109,
40. United States Utility Patent No. 5,155,295 Patent Date October 13, 1992 as Application No. 07/773,758 filed October 11, 1991.
This application is a Continuation of Application No. 07/429,461 filed October 19, 1989 by Assignment:
recorded 9/24/1990 at Reel 5454, Frame 0706,
41. United States Utility Patent No. 5,640,054 Patent Date June 17, 1997 as Application No. 07/563,914 filed June 19, 1990 by Assignment:
recorded 9/24/1990 at Reel 5454, Frame 0706,
42. United States Utility Patent No. 5,635,660 Patent Date June 3, 1997 as Application No. 07/336,445 filed March 10, 1989 by Assignment:
recorded 9/24/1990 at Reel 5454, Frame 0706,
recorded 11/11/1989 at Reel 5179, Frame 0225
43. United States Utility Patent No. 5,789,699 Patent Date August 4, 1998 as Application No. 08/767,560 filed December 16, 1996 by Assignment:
recorded 12/16/1996 at Reel 8371, Frame 0028,
44. United States Utility Patent No. 5,097,766 Patent Date March 24, 1992 as Application No. 07/533,324 filed June 5, 1990 by Assignment:

recorded 6/5/1990 at Reel 5344, Frame 0849,

45. United States Utility Patent No. 5,747,725 Patent Date May 5, 1998 as Application No. 08/649,392 filed May 17, 1996 by Assignment:

recorded 5/17/1996 at Reel 7992, Frame 0551,

46. United States Utility Patent No. 5,962,807 Patent Date October 5, 1999 as Application No. 09/034,712 filed March 4, 1998 by Assignment:

recorded 3/4/1998 at Reel 9062 Frame 0954,

47. United States Utility Patent No. 5,389,254 Patent Date February 14, 1995 as Application No. 08/106,253 filed August 13, 1993 by Assignment:

recorded 10/22/1993 at Reel 6746, Frame 0495,

48. United States Utility Patent No. 5,277,096 Patent Date January 11, 1994 as Application No. 07/988,608 filed December 10, 1992 by Assignment:

recorded 12/10/1992 at Reel 6350, Frame 0094,

49. United States Utility Patent No. 5,277,121 Patent Date January 11, 1994 as Application No. 07/990,473 filed December 14, 1992 by Assignment:

recorded 12/14/1992 at Reel 6367, Frame 0695,

50. United States Utility Patent No. 5,277,120 Patent Date January 11, 1994 as Application No. 07/990,472 filed December 14, 1992 by Assignment:

recorded 12/14/1992 at Reel 6410, Frame 0919,

51. United States Utility Patent No. 5,866,842 Patent Date February 2, 1999 as Application No. 08/683,286 filed July 18, 1996 by Assignments:

recorded 9/27/1996 at Reel 8152, Frame 0540; AND

recorded 3/3/1997 at Reel 8519, Frame 0083

52. United States Utility Patent No. 5,005,481 Patent Date **April 9, 1991** as Application No. 07/370,978 filed **June 26, 1989** by Assignment:
recorded 6/26/1989 at Reel 5096, Frame 0554,
53. United States Utility Patent No. 5,752,717 Patent Date **May 19, 1998** as Application No. 08/785,643 filed **January 17, 1997**. This application is a divisional of 08/373,333 filed **January 17, 1995** by Assignment:
recorded 1/17/1995 at Reel 7335, Frame 238,
54. United States Utility Patent No. 6,357,695 Patent Date **March 19, 2002** as Application No. 09/562,822 filed **May 1, 2000**. This application is a divisional of 09/022,370 filed **January 2, 1998**,
55. United States Application No. 09/619,949 filed **July 20, 2000** by Assignments:
recorded 3/15/2002 at Reel 012720, Frame 0231, AND
recorded 10/12/2000 at Reel 011194, Frame 0456
56. United States Utility Patent No. 4,601,767 Patent Date **July 22, 1986** as Application No. 06/696,057 filed **January 29, 1985** by Assignment:
recorded 1/29/1985 at Reel 4364 Frame 0240;
recorded 3/3/1997 at Reel 8519, Frame 0083,
57. United States Utility Patent No. 4,648,324 Patent Date **March 10, 1987** as Application No. 06/782,645 filed **October 1, 1985** by Assignment:
recorded 10/1/1985 at Reel 4468 Frame 0532;
recorded 3/3/1997 at Reel 8519, Frame 0083,

58. United States Utility Patent No. 4,681,038 Patent Date **July 21, 1987** as Application No. 06/825,122 filed **February 3, 1986** by Assignment:
recorded 2/18/1986 at Reel 4515 Frame 0133;
recorded 10/21/2002 at Reel 13380, Frame 0386,
59. United States Utility Patent No. 4,659,403 Patent Date **April 21, 1987** as Application No. 06/843,897 filed **March 25, 1986** by Assignment:
recorded 3/25/1986 at Reel 4550, Frame 0563;
recorded 3/3/1997 at Reel 8519, Frame 0083,
60. United States Utility Patent No. 4,711,152 Patent Date **December 8, 1987** as Application No. 06/925,280 filed **October 30, 1986** by Assignment:
recorded 11/17/1986 at Reel 4642, Frame 0879;
recorded 10/21/2002 at Reel 13380, Frame 0386,
61. United States Utility Patent No. 4,782,758 Patent Date **November 8, 1988** as Application No. 06/942,553 filed **December 16, 1986** by Assignment:
recorded 3/9/1988 at Reel 4848, Frame 0247;
recorded 10/21/2002 at Reel 13380, Frame 0386,
62. United States Utility Patent No. 4,759,886 Patent Date **July 26, 1988** as Application No. 07/007,549 filed **January 28, 1987** by Assignment:
recorded 1/28/1987 at Reel 4691, Frame 0782;
recorded 3/3/1997 at Reel 8519, Frame 0083,
63. United States Utility Patent No. 4,797,085 Patent Date **January 10, 1989** as Application No. 07/033,664 filed **April 3, 1987** by Assignment:
recorded 4/17/1987 at Reel 4703, Frame 0200,

64. United States Utility Patent No. 4,694,753 Patent Date **September 22, 1987** as Application No. 06/834,182 filed **February 26, 1986** by Assignment:
recorded 2/26/1986 at Reel 4522 Frame 0859;
65. United States Utility Patent No. 5,138,949 Patent Date **August 18, 1992** as Application No. 07/585,423 filed **September 20, 1990** by Assignment:
recorded 9/20/1990 at Reel 5457, Frame 0509;
recorded 3/3/1997 at Reel 8519, Frame 0083,
66. United States Utility Patent No. 5,177,320 Patent Date **January 5, 1993** as Application No. 07/581,729 filed **September 12, 1990** by Assignments:
recorded 7/29/1994 at Reel 007218, Frame 0511; AND
recorded 5/1/2003 at Reel 014027, Frame 0351; AND
recorded 5/1/2003 at Reel 014027, Frame 0354,
67. United States Utility Patent No. 5,317,951 Patent Date **June 7, 1994** as Application No. 07/953,355 filed **November 23, 1992** by Assignment:
recorded 7/29/1994 at Reel 7218, Frame 0511,
68. United States Utility Patent No. 5,237,927 Patent Date **August 24, 1993** as Application No. 07/779,661 filed **October 21, 1991** by Assignment:
recorded 10/21/1991 at Reel 5896, Frame 0682;
recorded 3/3/1997 at Reel 8519, Frame 0083,
69. United States Utility Patent No. 5,465,665 Patent Date **November 14, 1995** as Application No. 08/145,891 filed **October 29, 1993** by Assignment:
recorded 1/5/1994 at Reel 6823, Frame 0119;
recorded 3/3/1997 at Reel 8519, Frame 0083,

70. United States Utility Patent No. 5,227,578 Patent Date **July 13, 1993** as Application No. 07/819,953 filed **January 13, 1993** by Assignments:
recorded 7/29/1994 at Reel 007218, Frame 0511; AND
recorded 5/1/2003 at Reel 014027, Frame 0351; AND
recorded 5/1/2003 at Reel 014027 Frame 0354,
71. United States Utility Patent No. 5,323,708 Patent Date **June 28, 1994** as Application No. 08/038,872 filed **March 29, 1993** by Assignment:
recorded 7/22/1993 at Reel 6615, Frame 0318;
recorded 1/18/2001 at Reel 11425, Frame 0824;
recorded 10/21/2002 at Reel 13380, Frame 0386,
72. United States Utility Patent No. 6,444,062 Patent Date **September 3, 2002** as Application No. 09/882,402 filed **June 16, 2001** by Assignments:
recorded 7/8/2002 at Reel 013070, Frame 0155; AND
recorded 6/21/2000 at Reel 010918, Frame 0587,
73. United States Utility Patent No. 5,827,958 Patent Date **October 27, 1998** as Application No. 08/583,374 filed **January 5, 1996** by Assignments:
recorded 3/3/1997 at Reel 8519, Frame 0083; AND
recorded 1/5/1996 at Reel 7876, Frame 0830,
74. United States Utility Patent No. 5,960,894 Patent Date **October 5, 1999** as Application No. 09/039,171 filed **March 13, 1998** by Assignment:
recorded 3/13/1998 at Reel 9053, Frame 0087.

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On behalf of General Dynamics Ordnance
and Tactical Systems, Inc.